SSP-T Tubular Sight Glasses

NPS ½" – 6" · Class 150 · full 360° view · PFA-lined or unlined SS316L flanges

swissfluid USA

A tubular, full-view flow indicator for virtually all process media, liquid or gaseous. A borosilicate 3.3 glass cylinder between SS316L body flanges, PFA-lined or unlined, gives 360° visibility with no dead space along the entire installation length; a metallic collar and a PMMA protection tube around the glass add safety, and the assembly is easy to clean and maintain. Swissfluid calls the unlined version SST-T; it is ordered as SSP-T with lining "unlined".



Design

Sizes	NPS ½" – 6" (DN 15 – 150). Other sizes and materials on request.
Body flanges	Stainless steel SS316L (CF3M). Titanium Gr. 2, titanium Gr. 7, alloy C-276 and alloy C-22 to order.
Lining	PFA standard; PFA-AS (conductive), PVDF, ETFE or unlined to order.
Glass	Borosilicate 3.3 glass cylinder inside a PMMA-XT (acrylic glass) protection tube; borosilicate safety shield to order.
Seals and bolting	PTFE sealing rings (PTFE-AS to order); FPM inserts (VMQ silicone to order); SS316L thread bolts; A4 bolting material (B7 to order).
Connections	Flanges Class 150. Face-to-face lengths are EN 558-1 range 1 lengths. Vertical or horizontal installation.
Pressure	0.01 psia to 232 psig. Maximum working pressure by size: 232 psi in ½" – 2", 189 psi in 3", 160 psi in 4", 102 psi in 6".
Temperature	+14 °F to +320 °F (−10 °C to +160 °C) standard version; −40 °F to +392 °F (−40 °C to +200 °C) depending on material selection.
Compliance	FDA-compliant, all versions; pressure and tightness testing to EN 12266-1 leakage rate A / API 598; marking on body and name plate to EN 19; material and test certificates to EN 10204 3.1 / 2.2 / 2.1.

Source: Swissfluid USA PM 35 us 2025-04.

Main features

- Full 360° visibility
- No dead space along the entire installation length
- Vertical or horizontal installation
- Metallic collar for safe installation
- PMMA protective tube for additional safety
- Easy cleaning and maintenance
- FDA-compliant, all versions
- Grounding connection as standard

LinedPipe.Com note. The borosilicate glass cylinder is attacked by hydrofluoric acid, hot phosphoric acid and caustic. Not for HF or fluoride-bearing acids. Caution with hot phosphoric acid or caustic: ask us.

Options

- **Grounding cable** In addition to the standard grounding connection
- **Flange materials** Titanium Gr. 2, titanium Gr. 7, alloy C-276, alloy C-22
- **Lining** PFA-AS conductive, PVDF, ETFE or unlined. Codes A86, A88, A91
- **Sealing ring** PTFE-AS. Code B82
- **Insert** VMQ silicone. Code E68
- **Safety shield** Borosilicate in place of PMMA. Code S57
- **Bolting** B7 screw material

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Dimensions and ordering code, construction and service



Dimensions, inches

Size	B length	Weight lbs	PS max, psi
½"	5.11	4.0	232
¾"	5.90	5.4	232
1"	6.29	6.3	232
1½"	7.87	9.4	232
2"	9.05	13.7	232
3"	12.2	24.7	189
4"	13.77	36.0	160
6"	18.89	74.7	102

All lengths are EN 558-1 range 1 (DIN) lengths; confirm the installation length when ordering. Source: Swissfluid USA PM 35 us 2025-04.

Note. Maximum working pressure falls with size: 232 psi ½" – 2", 189 psi 3", 160 psi 4", 102 psi 6".

Ordering code

Build a code from left to right; a standard unit is **SSP-T · size · Class 150 · G14 · A85 · B80 · E67 · Z57 · S58 · A4**. Some selections require or exclude others; we check every code before it goes to the factory.

Nom. size	**DN 15–150** DN 15 – 150 · **½"–6"** NPS ½" – 6"
Flange conn.	**Class 150** Class 150
Flange	**G14** CF3M stainless · Ti Gr. 2 · Ti Gr. 7 · alloy C-276 · alloy C-22
Lining body	**A85** PFA · **A86** PFA-AS conductive · **A88** PVDF · **A91** ETFE · unlined
Sealing ring	**B80** PTFE · **B82** PTFE-AS
Elastomer	**E67** FPM · **E68** VMQ silicone
Glass cylinder	**Z57** borosilicate
Safety shield	**S58** PMMA · **S57** borosilicate
Screw material	**A4** A4 stainless · **B7** B7

Data and codes: Swissfluid USA PM 35 us 2025-04.

Construction. Two SS316L body flanges, PFA-lined or unlined; PTFE sealing rings and FPM inserts; borosilicate 3.3 glass cylinder inside a PMMA-XT protection tube; SS316L thread bolts with A4 bolting; grounding connection, grounding cable optional.

Typical service. Reliable flow indication for virtually all process media, liquid or gaseous. *LinedPipe.Com note: not for HF or fluoride-bearing acids; caution with hot phosphoric acid or caustic.*

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Ordering from LinedPipe.Com

Size, series, lining, class and quantity are enough to start. For a quotation send the service conditions (media, concentration, temperature, pressure, flow), the end connections and, for a valve, the actuation you need; we will confirm the ordering code, the installation dimensions and a delivery time.

Request a quote

(251) 625-4949 · info@linedpipe.com · linedpipe.com/contact/
(the online quote form takes valves line by line and attachments).

What to tell us

- Series and size, flange class, and full or reduced port where the series offers both
- Lining, and the ball, disc, glass, seat and elastomer materials where the series has them
- Body material: carbon steel or stainless, as the series offers
- For a valve, the topworks: bare stem, lever, gearbox, pneumatic or electric actuator, fail position, accessories
- Options from the series' ordering code, such as a conductive lining or special bolting
- Certificates: EN 10204 3.1 material certificates and test reports on request

Dimensions

Face-to-face lengths in our valve catalog are stated against ASME B16.10, MSS SP-88, EN 558-1 or EN 12982, as the note under each table says; where a table mixes standards, lengths marked * are not to the US standard. Confirm the installation length on the order acknowledgement before cutting pipe.

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